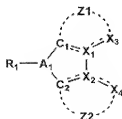


## SCOPE OF PATENT CLAIMS

Claim 1. An organic electroluminescence element material comprising a metal complex provided with a ligand represented by Formula (1),

Formula (1)

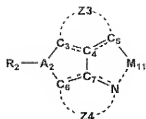


wherein, X<sub>1</sub>, X<sub>2</sub>, X<sub>3</sub> and X<sub>4</sub> are each independently a carbon atom or a nitrogen atom; C<sub>1</sub> and C<sub>2</sub> are carbon atoms; Z<sub>1</sub> in conjunction with C<sub>1</sub>, X<sub>1</sub> and X<sub>3</sub>, and Z<sub>2</sub> in conjunction with C<sub>2</sub>, X<sub>2</sub> and X<sub>4</sub>, are each an atomic group which forms an aromatic hydrocarbon ring or an aromatic heterocyclic ring, respectively; A<sub>1</sub> is a nitrogen atom or a boron atom; R<sub>1</sub> is a substituent group; and a bond between C<sub>1</sub> and X<sub>1</sub>, a bond between C<sub>2</sub> and X<sub>2</sub>, a bond between X<sub>1</sub> and X<sub>3</sub>, and a bond between X<sub>2</sub> and X<sub>4</sub>, are a single bond or a double bond.

Claim 2. The organic electroluminescence element material of claim 1, wherein R<sub>1</sub> of Formula (1) is an aromatic hydrocarbon ring or an aromatic heterocyclic ring.

Claim 3. An organic electroluminescence element material comprising a metal complex provided with a partial structure represented by Formula (2),

Formula (2)

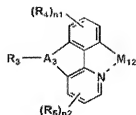


wherein, C<sub>3</sub>, C<sub>4</sub>, C<sub>5</sub>, C<sub>6</sub>, and C<sub>7</sub> are each independently a carbon atom or a nitrogen atom; Z<sub>3</sub> in conjunction with C<sub>3</sub>, C<sub>4</sub> and C<sub>5</sub> is an atomic group which forms an aromatic hydrocarbon ring or an aromatic heterocyclic ring; Z<sub>4</sub> in conjunction with C<sub>6</sub>, C<sub>7</sub> and N is an atomic group which forms an aromatic heterocyclic ring; A<sub>2</sub> is a nitrogen atom or a boron atom; R<sub>2</sub> is a substituent group; M<sub>11</sub> is an element of the 8th to 10th groups of the periodic table; and a bond between C<sub>3</sub> and C<sub>4</sub>, a bond between C<sub>4</sub> and C<sub>5</sub>, a bond between C<sub>6</sub> and C<sub>7</sub>, and a bond between C<sub>7</sub> and N, are a single bond or a double bond.

Claim 4. The organic electroluminescence element material of claim 3, wherein R<sub>2</sub> of Formula (2) is an aromatic hydrocarbon ring or an aromatic heterocyclic ring.

Claim 5. The organic electroluminescence element material of claim 3, wherein the metal complex is provided with a partial structure represented by Formula (3) or a tautomer thereof,

Formula (3)



wherein  $A_3$  is a nitrogen atom or a boron atom,  $R_3$  is a substituent group,  $R_4$  and  $R_5$  are substituent groups,  $n_1$  and  $n_2$  are each 0, 1 or 2, and  $M_{12}$  is an element of the 8th to 10th groups of the periodic table.

Claim 6. The organic electroluminescence element material of claim 3, wherein  $M_{11}$  or  $M_{12}$  is iridium.

Claim 7. The organic electroluminescence element material of claim 4, wherein  $M_{11}$  or  $M_{12}$  is iridium.

Claim 8. The organic electroluminescence element material of claim 5, wherein  $M_{11}$  or  $M_{12}$  is iridium.

Claim 9. The organic electroluminescence element material of claim 3, wherein  $M_{11}$  or  $M_{12}$  is platinum.

Claim 10. The organic electroluminescence element material of claim 4, wherein  $M_{11}$  or  $M_{12}$  is platinum.

Claim 11. The organic electroluminescence element material of claim 5, wherein  $M_{11}$  or  $M_{12}$  is platinum.

Claim 12. An organic electroluminescence element comprising the organic electroluminescence element material of claim 1.

Claim 13. The organic electroluminescence element of claim 12, wherein the element is provided with at least one emission layer as a constituent layer.

Claim 14. The organic electroluminescence element of claim 12, wherein the element is provided with at least one emission layer and one positive hole inhibition layer, serving as constituent layers.

Claim 15. A display device comprising the organic electroluminescence element of claim 12.

Claim 16. An illumination device comprising the organic electroluminescence element of claim 12.